Title of Invention: I VISTAPIC and JUNETIC ESSEON of OLD-1 and GLD- Layoust
Inventors (please provide full names): See attache TBIB sheet
0 / 101 d
Earliest Priority Date: See anached Bib Sheez
Search Topic: Please provide a detailed statement of the search topic, and describe as specifically as passible the subject maner to be searched. Include the elected species or structures, however, spanyous, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.
For Sequence Searches Only Please include all perioses information (parent, child, divisional, or issued patent numbers) along with the appropriate social number.
Hease search SEQ ID NO: 3 and the method associated with the
Sequence (claim 35)

FILE 'REGISTRY' ENTERED AT 10:44:40 ON 08 APR 2008
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STRUCTURE FILE UPDATES: 7 APR 2008 HIGHEST RN 1012704-12-9 DICTIONARY FILE UPDATES: 7 APR 2008 HIGHEST RN 1012704-12-9

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L1 566 S HAEGTFTSDVSSYLEGQAAKEFIAWLVKGR/SQSP

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L1	566	SEA	FILE=REGIST	RY ABB=01	N PLU=O	N HAEGTFTSDVSSYLEGQAAKEFIAW
		LVK	GR/SQSP			
L2	584	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	L1
L4	59887	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	HYPERTENSION+OLD/CT
L5	43	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	L2 AND L4
L6	43	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	L5 AND THU/RL
L7	10793	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	DIURETICS+OLD/CT
L8	2456	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	INOTROPICS+OLD/CT
L9	4	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	L6 AND (L7 OR L8)

L1 560		=REGISTRY ABB=ON PLU=ON HAEGTFTSDVSSYLEGQAAKEFIAW
L4 5988	7 SEA FILE=	SP =CAPLUS ABB=ON PLU=ON L1 =CAPLUS ABB=ON PLU=ON HYPERTENSION+OLD/CT =CAPLUS ABB=ON PLU=ON L2 AND L4
L7 10793	SEA FILE=	=CAPLUS ABB=ON PLU=ON DIURETICS+OLD/CT
		=CAPLUS ABB=ON PLU=ON INOTROPICS+OLD/CT =CAPLUS ABB=ON PLU=ON L5 AND (L7 OR L8)
L1 560	SEA FILE=	=REGISTRY ABB=ON PLU=ON HAEGTFTSDVSSYLEGQAAKEFIAW SP
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ПЭ 3,	HIGH(1W)	(BLOOD OR PRESSURE) OR HBP) (10A) (TREAT? OR THERAP?
L11	OR PREVEN 4 SEA FILE=	NT?) =CAPLUS ABB=ON PLU=ON L3 AND (?DIURETIC? OR
	(MYOCARD)) OR (CAF	I## OR CARDIAC OR HEART)(3A)(STIMULAT? OR STIMULANT RDIO OR CARDIAC OR HEART)(3A)PROTECT? OR CARDIOPROT?CARDIOTONIC?)
L1 566	SEA FILE=	=REGISTRY ABB=ON PLU=ON HAEGTFTSDVSSYLEGQAAKEFIAW SP
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ПТС	(MYOCARD)	I## OR CARDIAC OR HEART)(3A)(STIMULAT? OR STIMULANT
		RDIO OR CARDIAC OR HEART)(3A)PROTECT? OR CARDIOPROT ?CARDIOTONIC?)
L13	9 S L9 OR I	L10 OR L11 OR L12
		L10 OR L11 OR L12 US COPYRIGHT 2008 ACS on STN
L13 ANSWER 1 (ED Entered S	OF 9 CAPLU	US COPYRIGHT 2008 ACS on STN v 2006
L13 ANSWER 1 (ED Entered S' ACCESSION NUMBI DOCUMENT NUMBE	OF 9 CAPLUIN: 16 Nov	US COPYRIGHT 2008 ACS on STN v 2006 2006:1205743 CAPLUS <u>Full-text</u> 146:8253
L13 ANSWER 1 (ED Entered S' ACCESSION NUMBI	OF 9 CAPLUIN: 16 Nov	US COPYRIGHT 2008 ACS on STN v 2006 2006:1205743 CAPLUS <u>Full-text</u> 146:8253 Preparation of N- and C-terminal modified peptides
L13 ANSWER 1 (ED Entered S' ACCESSION NUMBI DOCUMENT NUMBE	OF 9 CAPLUIN: 16 Nov	US COPYRIGHT 2008 ACS on STN v 2006 2006:1205743 CAPLUS <u>Full-text</u> 146:8253 Preparation of N- and C-terminal modified peptides as glucagon-like peptide 1 (GLP-1) receptor agonists and their use for treating diabetes and
L13 ANSWER 1 (ED Entered S' ACCESSION NUMBI DOCUMENT NUMBE	OF 9 CAPLUIN: 16 Nov	US COPYRIGHT 2008 ACS on STN v 2006 2006:1205743 CAPLUS <u>Full-text</u> 146:8253 Preparation of N- and C-terminal modified peptides as glucagon-like peptide 1 (GLP-1) receptor
L13 ANSWER 1 (ED Entered STACCESSION NUMBER TOTALE: INVENTOR(S): PATENT ASSIGNED	DF 9 CAPLUIN: 16 Nov ER: R:	US COPYRIGHT 2008 ACS on STN v 2006 2006:1205743 CAPLUS <u>Full-text</u> 146:8253 Preparation of N- and C-terminal modified peptides as glucagon-like peptide 1 (GLP-1) receptor agonists and their use for treating diabetes and other metabolic disorders Whelan, James; Lumb, Kevin; Clairmont, Kevin Bayer Pharmaceuticals Corporation, USA
L13 ANSWER 1 (ED Entered STACCESSION NUMBER TITLE: INVENTOR(S):	DF 9 CAPLUIN: 16 Nov ER: R:	US COPYRIGHT 2008 ACS on STN v 2006 v 2006:1205743 CAPLUS <u>Full-text</u> 146:8253 Preparation of N- and C-terminal modified peptides as glucagon-like peptide 1 (GLP-1) receptor agonists and their use for treating diabetes and other metabolic disorders Whelan, James; Lumb, Kevin; Clairmont, Kevin
L13 ANSWER 1 (ED Entered STACCESSION NUMBER DOCUMENT NUMBER TITLE: INVENTOR(S): PATENT ASSIGNER SOURCE: DOCUMENT TYPE:	DF 9 CAPLUIN: 16 Nov ER: R:	US COPYRIGHT 2008 ACS on STN v 2006 2006:1205743 CAPLUS <u>Full-text</u> 146:8253 Preparation of N- and C-terminal modified peptides as glucagon-like peptide 1 (GLP-1) receptor agonists and their use for treating diabetes and other metabolic disorders Whelan, James; Lumb, Kevin; Clairmont, Kevin Bayer Pharmaceuticals Corporation, USA PCT Int. Appl., 104pp. CODEN: PIXXD2 Patent
L13 ANSWER 1 (ED Entered S' ACCESSION NUMBER DOCUMENT NUMBER TITLE: INVENTOR(S): PATENT ASSIGNER SOURCE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUMBER TO STANGUAGE TO STANGU	DF 9 CAPLUIN: 16 Nover 16 Nove	US COPYRIGHT 2008 ACS on STN v 2006 2006:1205743 CAPLUS <u>Full-text</u> 146:8253 Preparation of N- and C-terminal modified peptides as glucagon-like peptide 1 (GLP-1) receptor agonists and their use for treating diabetes and other metabolic disorders Whelan, James; Lumb, Kevin; Clairmont, Kevin Bayer Pharmaceuticals Corporation, USA PCT Int. Appl., 104pp. CODEN: PIXXD2
L13 ANSWER 1 (ED Entered STACCESSION NUMBER DOCUMENT NUMBER TITLE: INVENTOR(S): PATENT ASSIGNER SOURCE: DOCUMENT TYPE: LANGUAGE:	DF 9 CAPLUIN: 16 Nover 16 Nove	US COPYRIGHT 2008 ACS on STN v 2006 2006:1205743 CAPLUS <u>Full-text</u> 146:8253 Preparation of N- and C-terminal modified peptides as glucagon-like peptide 1 (GLP-1) receptor agonists and their use for treating diabetes and other metabolic disorders Whelan, James; Lumb, Kevin; Clairmont, Kevin Bayer Pharmaceuticals Corporation, USA PCT Int. Appl., 104pp. CODEN: PIXXD2 Patent English
L13 ANSWER 1 (ED Entered ST ACCESSION NUMBI DOCUMENT NUMBE TITLE: INVENTOR(S): PATENT ASSIGNED SOURCE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM PATENT INFORMAT	DF 9 CAPLUIN: 16 Nover 16 Nove	US COPYRIGHT 2008 ACS on STN v 2006 2006:1205743 CAPLUS <u>Full-text</u> 146:8253 Preparation of N- and C-terminal modified peptides as glucagon-like peptide 1 (GLP-1) receptor agonists and their use for treating diabetes and other metabolic disorders Whelan, James; Lumb, Kevin; Clairmont, Kevin Bayer Pharmaceuticals Corporation, USA PCT Int. Appl., 104pp. CODEN: PIXXD2 Patent English 1 KIND DATE APPLICATION NO. DATE
L13 ANSWER 1 (ED Entered S' ACCESSION NUMBER DOCUMENT NUMBER TITLE: INVENTOR(S): PATENT ASSIGNER SOURCE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUMBER PATENT INFORMA	DF 9 CAPLUIN: 16 Nover 16 Nove	US COPYRIGHT 2008 ACS on STN v 2006 2006:1205743 CAPLUS <u>Full-text</u> 146:8253 Preparation of N- and C-terminal modified peptides as glucagon-like peptide 1 (GLP-1) receptor agonists and their use for treating diabetes and other metabolic disorders Whelan, James; Lumb, Kevin; Clairmont, Kevin Bayer Pharmaceuticals Corporation, USA PCT Int. Appl., 104pp. CODEN: PIXXD2 Patent English 1
L13 ANSWER 1 (ED Entered S' ACCESSION NUMBED DOCUMENT NUMBED TITLE: INVENTOR(S): PATENT ASSIGNED SOURCE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUMBED DOCUMENT INFORMANT INFOR	DF 9 CAPLUIN: 16 Nover 16 Nove	US COPYRIGHT 2008 ACS on STN v 2006 2006:1205743 CAPLUS Full-text 146:8253 Preparation of N- and C-terminal modified peptides as glucagon-like peptide 1 (GLP-1) receptor agonists and their use for treating diabetes and other metabolic disorders Whelan, James; Lumb, Kevin; Clairmont, Kevin Bayer Pharmaceuticals Corporation, USA PCT Int. Appl., 104pp. CODEN: PIXXD2 Patent English 1 KIND DATE APPLICATION NO. DATE
L13 ANSWER 1 (ED Entered S: ACCESSION NUMBER DOCUMENT NUMBER TITLE: INVENTOR(S): PATENT ASSIGNER SOURCE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUMBER PATENT NO PATENT INFORMAT WO 200612: WO 200612: W: AI CI	DF 9 CAPLUIN: 16 Nover 16 Nove	US COPYRIGHT 2008 ACS on STN v 2006 2006:1205743 CAPLUS <u>Full-text</u> 146:8253 Preparation of N- and C-terminal modified peptides as glucagon-like peptide 1 (GLP-1) receptor agonists and their use for treating diabetes and other metabolic disorders Whelan, James; Lumb, Kevin; Clairmont, Kevin Bayer Pharmaceuticals Corporation, USA PCT Int. Appl., 104pp. CODEN: PIXXD2 Patent English 1 KIND DATE APPLICATION NO. DATE A2 20061116 WO 2006-US17411 20060505 A3 20070412

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MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT,
                     RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT,
                     TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
              RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU,
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                                                   20061116 CA 2006-2607566
        CA 2607566
                                         Α1
                                                                                                            20060505
                                                   20080206
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        EP 1883419
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              R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU,
                     IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR
PRIORITY APPLN. INFO.:
                                                                       US 2005-678723P
                                                                      WO 2006-US17411 W 20060505
OTHER SOURCE(S):
                                        MARPAT 146:8253
        The invention relates to novel N-terminal and C-terminal modifications of
        peptides that provide suitable derivatization sites to improve their
        pharmacokinetic properties. Modified peptides of formula Z1-A1-A2-A3-Gly-A5-
        Phe-Thr-A8-Asp-A10-A11-A12-A13-A14-A15-A16-A17-A18- A19-A20-A21-Phe-A23-A24-
        A25-A26-A27-A28-A29-A30-A31-A32-A33-A34-A35- A36-A37-A38-A39-A40-Z2 [A1, A2,
        to A40 = a bond, amino acid residues (defined), pegylated Cys, or Lys modified
        at N\varepsilon with a fatty acid; Z1 = H, acyl groups, e.g., aminobenzoyl,
        mercaptobenzoyl, CH3(CH2)nCO-; 5-mercaptonicotinoyl, 2-[(2-
        mercaptoethyl)amino]nicotinoyl, 2-(2-mercapto-1H-benzimidazol-1- yl)acetyl,
        pegylated thiols containing acyl groups, etc.; n = 0-22; Z2 = OH, amino
        groups, e.g., NH(CH2)5CO2H, aminobenzoic acid, 2-carboxypiperidino, etc.]
         function as agonists of the GLP-1 receptor in vivo. Synthetic examples
        describe N-terminal modifying compds., which include (2-mercapto-1H-
        benzimidazol-1-yl)acetic acid, [(1-hexadecyl-1H-benzimidazol-2-
        yl)sulfanyl]acetic acid and lithium 2-[[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthio)ethyl]-1H-imidazol-2-[1-[2-(tritylthi
        yl]thio]acetate, for attachment to the peptide via solid phase synthesis. The
        peptides disclosed bind to the GLP-1 receptor present in the plasma membranes
        isolated from RINm5F cells with IC50 values in the range of 1.4-248 nM.
        Modified peptides of the invention provide a new therapy for patients with
        metabolic disorders such as those resulting from decreased endogenous insulin
        secretion, in particular diabetes or impaired glucose tolerance.
        672297-54-0
ΙT
        RL: PRP (Properties); THU (Therapeutic use); BIOL
        (Biological study); USES (Uses)
             (amino acid sequence, glucagon-like peptide I derivative; preparation of
            modified peptides as GLP-1 receptor agonists and their use for
             treating diabetes and related diseases)
        106612-94-6D, 7-37-Glucagon-like peptide I (human), peptides,
        conjugates
        RL: PRP (Properties); THU (Therapeutic use); BIOL
        (Biological study); USES (Uses)
             (amino acid sequence; preparation of modified peptides as GLP-1 receptor
             agonists and their use for treating diabetes and related diseases)
L13 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
        Entered STN: 14 Jul 2006
ACCESSION NUMBER:
                                        2006:681428 CAPLUS Full-text
DOCUMENT NUMBER:
                                        145:96881
TITLE:
                                       Use of GLP-1 and agonists thereof to prevent
                                       cardiac myocyte apoptosis
                                       Anderson, Christen; Baron, Alain D.
INVENTOR(S):
                                  Amylin Pharmaceuticals, Inc., USA
PATENT ASSIGNEE(S):
                                       PCT Int. Appl., 35 pp.
SOURCE:
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CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PA:	CENT 1	NO.			KIND DATE			APPLICATION NO.							DATE		
		2006				A2 20060713 A3 20070125			WO 2005-US46788						20051222			
		W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	
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			GB,	GD,	GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KM,	
			KN,	KP,	KR,	KΖ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	LY,	MA,	MD,	MG,	
			MK,	MN,	MW,	MX,	MZ,	NA,	NG,	ΝI,	NO,	NZ,	OM,	PG,	PH,	PL,	PT,	
			RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SM,	SY,	ТJ,	TM,	TN,	TR,	TT,	
			TZ,	UA,	UG,	US,	UΖ,	VC,	VN,	YU,	ZA,	ZM,	ZW					
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			TG,	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	
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	ΑU	2005	3230	63		A1		2006	0713		AU 2	005-	3230	63		20051222		
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	US	2007	0021	336		A1		2007	0125	,	US 2	005-	3137	63		2	0051222	
	ΕP	1838	336			A2		2007	1003		EP 2	005-	8571	95		2	0051222	
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PRIOR	IT	APP:	LN.	INFO	.:						US 2	004-	6391	24P		P 2	0041224	
										,	WO 2	005-	US46	788	,	W 2	0051222	

AΒ The present invention relates generally to the novel use of GLP-1, including analogs, and agonists, to prevent cardiac myocyte apoptosis. The present invention relates to methods for using GLP-1 for the treatment of conditions associated with cardiac myocyte apoptosis. The present invention further relates to improving the efficiency of cardiac myocytes and also to improving cardiac contractility.

87805-34-3, Glucagon-like peptide I (human) ΤТ 87805-34-3D, Glucagon-like peptide I (human), analogs

RL: PAC (Pharmacological activity); THU (Therapeutic use);

BIOL (Biological study); USES (Uses)

(use of GLP-1 and agonists thereof to prevent cardiac myocyte apoptosis)

123475-27-4, GLP-1 (7-36) ΙT

RL: PAC (Pharmacological activity); THU (Therapeutic use);

BIOL (Biological study); USES (Uses)

(use of GLP-1 and agonists thereof to prevent cardiac myocyte apoptosis in diabetic patients)

L13 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

Entered STN: 20 Jan 2006

ACCESSION NUMBER: 2006:57548 CAPLUS Full-text

DOCUMENT NUMBER: 144:206120

TITLE: Active metabolite of GLP-1 mediates myocardial

> glucose uptake and improves left ventricular performance in conscious dogs with dilated

cardiomyopathy

AUTHOR(S): Nikolaidis, Lazaros A.; Elahi, Dariush; Shen,

You-Tang; Shannon, Richard P.

CORPORATE SOURCE: Department of Medicine, Allegheny General

Hospital, Drexel University College of Medicine,

Pittsburgh, PA, USA

SOURCE: American Journal of Physiology (2005), 289(6, Pt.

2), H2401-H2408

CODEN: AJPHAP; ISSN: 0002-9513
American Physiological Society

DOCUMENT TYPE: Journal LANGUAGE: English

PUBLISHER:

The authors have shown previously that the glucagon-like peptide-1 (GLP-1)-(7-AΒ 36) amide increases myocardial glucose uptake and improves left ventricular (LV) and systemic hemodynamics in both conscious dogs with pacing-induced dilated cardiomyopathy (DCM) and humans with LV systolic dysfunction after acute myocardial infarction. However, GLP-1-(7-36) is rapidly degraded in the plasma to GLP-1-(9-36) by dipeptidyl peptidase IV (DPP IV), raising the issue of which peptide is the active moiety. By way of methodol., the authors compared the efficacy of a 48-h continuous i.v. infusion of GLP-1-(7-36) (1.5 $pmol \cdot kg - 1 \cdot min - 1)$ to GLP - 1 - (9 - 36) (1.5 $pmol \cdot kg - 1 \cdot min - 1)$ in 28 conscious, chronically instrumented dogs with pacing-induced DCM by measuring LV function and transmyocardial substrate uptake under basal and insulin-stimulated conditions using hyperinsulinemic-euglycemic clamps. As a result, dogs with DCM demonstrated myocardial insulin resistance under basal and insulinstimulated conditions. Both GLP-1-(7-36) and GLP-1-(9-36) significantly reduced (P < 0.01) LV end-diastolic pressure [GLP-1-(7-36), 28 ± 1 to 15 ± 2 mmHq; GLP-1-(9-36), 29 ± 2 to 16 ± 1 mmHq] and significantly increased (P < 0.01) the first derivative of LV pressure [GLP-1-(7-36), 1315±81 to 2195±102 mmHq/s; GLP-1-(9-36), 1336 ± 77 to 2208 ± 68 mmHg] and cardiac output [GLP-1-(7-36), 1.5 ± 0.1 to 1.9 ± 0.1 l/min; GLP-1-(9-36), 2.0 ± 0.1 to 2.4 ± 0.05 l/min], whereas an equivolume infusion of saline had no effect. Both peptides increased myocardial glucose uptake but without a significant increase in plasma insulin. During the GLP-1-(9-36) infusion, negligible active (N-terminal) peptide was measured in the plasma. In conclusion, in DCM, GLP-1-(9-36)mimics the effects of GLP-1-(7-36) in stimulating myocardial glucose uptake and improving LV and systemic hemodynamics through insulinomimetic as opposed to insulinotropic effects. These data suggest that GLP-1-(9-36) amide is an active peptide.

IT 123475-27-4, GLP-1 (7-36)

RL: BSU (Biological study, unclassified); BIOL (Biological study) (active metabolite of GLP-1 mediates myocardial glucose uptake and improves left ventricular performance in conscious dogs with dilated cardiomyopathy)

REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

ED Entered STN: 01 Dec 2005

ACCESSION NUMBER: 2005:1259630 CAPLUS Full-text

DOCUMENT NUMBER: 144:17183

TITLE: Drug combinations for treating metabolic disorders

INVENTOR(S): Lautt, Wayne W.

PATENT ASSIGNEE(S): Diamedica Inc.ca, Can. SOURCE: PCT Int. Appl., 63 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

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                               _____
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                                         WO 2005-CA775 20050520
    WO 2005112949
                       A1 20051201
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            CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
            GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM,
            KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN,
            MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU,
            SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA,
            UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
        RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW,
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            DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC,
            NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA,
            GN, GQ, GW, ML, MR, NE, SN, TD, TG
    AU 2005245240 A1 20051201 AU 2005-245240
                                                                20050520
    CA 2566873
                        A1
                             20051201 CA 2005-2566873
                              20070307 EP 2005-748807
    EP 1758597
                        A1
                                                                 20050520
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            IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR
                A 20070509 CN 2005-80016223 20050520
5 T 20071227 JP 2007-516916 20050520
77 A 20070831 IN 2006-DN7077 20061124
NFO.: US 2004-572486P P 20040520
    CN 1960735
    JP 2007538015
    IN 2006DN07077
PRIORITY APPLN. INFO.:
                                          WO 2005-CA775 W 20050520
AΒ
     The invention provides pharmaceutical compns. comprising: (a) a modulator of
     hepatic parasympathetic tone, (b) at least one diabetes drug, and (c) a
     pharmaceutically acceptable carrier. A method for the treatment and/or
     prevention of insulin resistance, type 2 diabetes, impaired glucose
     intolerance, and other associated disorders with the above pharmaceutical
     composition The invention also provides for a kit comprising the
     pharmaceutical composition and instructions for its use.
ΙT
    532951-64-7, CJC-1131
    RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
        (drug combinations for treating metabolic disorders)
REFERENCE COUNT:
                        4
                              THERE ARE 4 CITED REFERENCES AVAILABLE FOR
                              THIS RECORD. ALL CITATIONS AVAILABLE IN THE
                              RE FORMAT
L13 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
    Entered STN: 07 Jan 2005
ACCESSION NUMBER:
                       2005:14148 CAPLUS Full-text
                       142:107413
DOCUMENT NUMBER:
TITLE:
                       Combination therapy for the treatment of
                        dvslipidemia
INVENTOR(S):
                        Erondu, Ngozi E.; Fong, Tung M.; MacNeil, Douglas
                        J.; Van Der Ploeg, Leonardus H. T.
PATENT ASSIGNEE(S):
                        Merck & Co., Inc., USA
SOURCE:
                        PCT Int. Appl., 106 pp.
                       CODEN: PIXXD2
DOCUMENT TYPE:
                       Patent
                        English
LANGUAGE:
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
                  KIND DATE APPLICATION NO.
    PATENT NO.
                                                               DATE
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                       ____
                              _____
                                          _____
                                                                 _____
    WO 2005000217
                       A2
                               20050106 WO 2004-US17120
                                                                 20040602
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WO 2005000217
                         А3
                                20050407
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA,
             CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
             GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP,
             KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
            MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD,
             SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,
             VC, VN, YU, ZA, ZM, ZW
         RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW,
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             DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL,
             PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
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                         A2 20060322
                                           EP 2004-753858
     EP 1635813
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,
             PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK
     US 20060148721 A1 20060706 US 2005-555194
                                                                   20051101
PRIORITY APPLN. INFO.:
                                                              P 20030606
                                            US 2003-476387P
                                            WO 2004-US17120 W 20040602
OTHER SOURCE(S):
                        MARPAT 142:107413
     The invention relates to compns. comprising an anti-obesity agent and an anti-
     dyslipidemic agent useful for the treatment of dyslipidemia, dyslipidemia
     associated with obesity and dyslipidemia-related disorders. The invention
     further relates to methods of treating or preventing obesity, and obesity-
     related disorders, in a subject in need thereof by administering a composition
     of the present invention. The invention further provides pharmaceutical
     compns., medicaments, and kits useful in carrying out these methods.
     106612-94-6, 7-37-Glucagon-like peptide I (human)
     107444-51-9
     RL: PAC (Pharmacological activity); THU (Therapeutic use);
     BIOL (Biological study); USES (Uses)
        (combination therapy for treatment of dyslipidemia)
L13 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
     Entered STN: 23 Dec 2004
ACCESSION NUMBER:
                        2004:1124581 CAPLUS Full-text
                        142:69181
DOCUMENT NUMBER:
                        Combination therapy for the
TITLE:
                        treatment of hypertension
                        Fong, Tung M.; Erondu, Ngozi E.; Macneil, Douglas
INVENTOR(S):
                         J.; Mcintyre, James H.; Van Der Ploeg, Leonardus
                        н. т.
PATENT ASSIGNEE(S):
                        Merck & Co., Inc., USA
SOURCE:
                        PCT Int. Appl., 99 pp.
                        CODEN: PIXXD2
DOCUMENT TYPE:
                        Patent
LANGUAGE:
                         English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
     PATENT NO.
                       KIND
                                DATE APPLICATION NO.
                                _____
                                            _____

      WO 2004110368
      A2
      20041223

      WO 2004110368
      A3
      20060720

                                           WO 2004-US17090
                                                                   20040602
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA,
             CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
             GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP,
             KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
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MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD,
             SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,
             VC, VN, YU, ZA, ZM, ZW
         RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW,
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             PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
            GW, ML, MR, NE, SN, TD, TG
                         A2 20060322
                                          EP 2004-753832
     EP 1635773
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,
            PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU,
            PL, SK, HR
                    A1 20060720 US 2005-559111
     US 20060160834
                                                                   20051202
                                           US 2005-559111 20051202
US 2003-476390P P 20030606
PRIORITY APPLN. INFO.:
                                           WO 2004-US17090 W 20040602
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OTHER SOURCE(S): MARPAT 142:69181

AB The present invention relates to compns. comprising an anti-obesity agent and an anti-hypertensive agent useful for the treatment of hypertension, hypertension associated with obesity, and hypertension-related disorders. The present invention further relates to methods of treating or preventing obesity, and obesity-related disorders, in a subject in need thereof by administering a composition of the present invention. The present invention further provides for pharmaceutical compns., medicaments, and kits useful in carrying out these methods.

IT 106612-94-6, 7-37-Glucagon-like peptide I (human) 107444-51-9

RL: PAC (Pharmacological activity); THU (Therapeutic use);

BIOL (Biological study); USES (Uses)
(combination therapy of hypertension and
hypertension-related disorders using antiobesity agent and

anypertension=related disorders using antiopesity agent and antihypertensive agent and other agents and antihypertensive agent)

L13 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

ED Entered STN: 21 May 2004

ACCESSION NUMBER: 2004:414602 CAPLUS Full-text

DOCUMENT NUMBER: 140:400707

TITLE: Method of treating left ventricular dysfunction

INVENTOR(S): Shannon, Richard P.; Elahi, Dariush

PATENT ASSIGNEE(S): Allegheny-Singer Research Institute, USA

SOURCE: U.S. Pat. Appl. Publ., 14 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PAT	TENT	NO.			KINI)	DATE	DATE APPLICATION NO					. O	D. DATE			
						_											
US	2004	0097	411		A1		2004	0520		US 2	2002-	2991	62		2	0021	119
US	7192	922			В2		20070320										
CA	2449	540			A1		20040519 CA 2003-2449540							2	0031	117	
EP	1421	950			A1	2004	0526		EP 2	2003-	2572	68	20031118			118	
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	
		PT,	ΙE,	SI,	LT,	LV,	FΙ,	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	HU,	SK
PRIORITY	APP	LN.	INFO	.:						US 2	2002-	2991	62	ž	A 2	0021	119

AB A method of treating a patient having heart failure due to LV systolic dysfunction with an LV ejection fraction less than 40%. The method includes the steps of administering to a patient in need thereof, a compound selected from the group consisting of GIP, GIP analogs, GIP derivs. and pharmaceutically-acceptable salts thereof, GLP-1, GLP-1 analogs, GLP-1 derivs. and pharmaceutically-acceptable salts there of, at a therapeutically effective amount to improve LV function.

IT 107444-51-9, (7-36)Glucagon-like peptide-1 amide
RL: PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(method of treating left ventricular dysfunction)

REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

ED Entered STN: 03 May 2002

ACCESSION NUMBER: 2002:332051 CAPLUS Full-text

DOCUMENT NUMBER: 136:350560

TITLE: Treatment of hibernating myocardium and diabetic

cardiomyopathy with a GLP-1 peptide

INVENTOR(S):
Ehlers, Mario

PATENT ASSIGNEE(S): Coolidge, Thomas R., USA SOURCE: PCT Int. Appl., 26 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

								APPLICATION NO.							DATE		
WO	2002	0342	85		A2 20020502 A3 20030515												
WO																	
	W:	ΑE,	AG,	ΑL,	ΑM,	ΑT,	ΑU,	ΑZ,	ΒA,	BB,	, BG,	BR,	BY,	ΒZ,	CA,	CH,	
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ	, EC,	EE,	ES,	FΙ,	GB,	GD,	
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	, JP,	ΚE,	KG,	KP,	KR,	KZ,	
		LC,	LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD	, MG,	MK,	MN,	MW,	MX,	MZ,	
		NO,	NZ,	PH,	PL,	PT,	RO,	RU,	SD,	SE	, SG,	SI,	SK,	SL,	ΤJ,	TM,	
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CA	2395	165			A1		2002	0502		CA 2	2001-		2	0011022			
AU	2002	0146	18		Α	2002	0506	AU 2002-14618						2	0011022		
AU	7756	63			В2		2004										
US	2002	0146	405		A1	2002	1010	US 2001-982978						20011022			
US	6894	024			В2												
									EP 2001-983169						20011022		
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR	, IT,	LI,	LU,	NL,	SE,	MC,	
		PT,	IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY	, AL,	TR	·	•		,	
JP	2004	5123	11	·	T	·	2004	0422	·	JP 2	2002-	5373	36		2	0011022	
ZA	2002	0049	49		Α		2005	0316		ZA 2	2002-	4949			2	0011022	
	5197	52			А		2005	0429		NZ :	2001-	5197	52		2	0011022	
MX	2002	PA06	118		А		2004	0823		MX :	2002-	PA61	18		2	0020619	
	2004																
	2004						2007		AU 2004-229049						_	-	
										US 2	2004-	7938			2	0041208	
PRIORIT																0001020	

US 2000-242139P P 20001023

US 2000-245234P P 20001103

US 2001-982978 A3 20011022

WO 2001-US32559 W 20011022

AB Hibernating myocardium is characterized by viable myocardium with impaired function due to localized reduced perfusion. Hibernating myocytes retain cellular integrity, but cannot sustain high-energy requirements of contraction. High plasma levels of catecholamines, such as norepinephrine, are believed to be predictive of mortality from hibernating myocardium. Likewise, high levels of catecholamines lead to cardiomyopathy in patients with diabetes. GLP-1 reduces plasma norepinephrine levels, and it thus is useful in a method of treating hibernating myocardium or diabetic cardiomyopathy.

IT 123475-27-4

RL: PRP (Properties)

(unclaimed sequence; treatment of hibernating myocardium and diabetic cardiomyopathy with a GLP-1 peptide)

L13 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

D Entered STN: 24 Jun 1999

ACCESSION NUMBER: 1999:390390 CAPLUS Full-text

DOCUMENT NUMBER: 131:49468

TITLE: Oral GLP-1 formulations for antidiabetic and other

therapeutic applications

INVENTOR(S): Hoffmann, James Arthur PATENT ASSIGNEE(S): Eli Lilly and Company, USA SOURCE: PCT Int. Appl., 26 pp.

: PCT Int. Appl., 26 pp. CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PA	TENT :	NO.			KIND DATE			APPLICATION NO.								
WO	9929	336			A1 19990617			0617	,							
	W:	AL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CU,	CZ,
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		JP,	KE,	KG,	KP,	KR,	KΖ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	MD,	MG,
		MK,	MN,	MW,	MX,	NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,
		SL,	ΤJ,	TM,	TR,	TT,	UA,	UG,	US,	UΖ,	VN,	YU,	ZW			
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		ES,	FΙ,	FR,	GB,	GR,	ΙE,	ΙΤ,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,
		CG,	CI,	CM,	GA,	GN,	GW,	ML,	MR,	ΝE,	SN,	TD,	ΤG			
CA	2312	190			A1		1999	0617	1	CA 1	998-	19981202				
AU	9916	173			Α		1999	0628	AU 1999-16173					19981202		
EP	1049	486			A1 20001108			1108	EP 1998-960617					19981202		
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	ΙΤ,	LI,	NL,	SE,	PT,	IE, FI
JP	2001	5253	71		Τ		2001	1211		JP 2	000-	5240	05		1	9981202
US	6358	924			В1		2002	0319		US 2	000-	58518	31		2	0000601
US	2002	0123	466		A1		2002	0905		US 2	002-	72540	О		2	0020208
PRIORIT	PRIORITY APPLN. INFO.:									US 1	997-	6760	OP]	P 1	9971205
									,	WO 1	998-1	JS25!	515	Ī	w 1	9981202

US 2000-573809 A1 20000518

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AΒ
     Methods and formulations are presented that provide for (a) the oral
     absorption of GLP-1 peptides that bind surfactants; and (b) long-term storage
     of formulations containing these peptides. For example, a GLP-1/DSS complex
     is administered orally instead of parenterally, which is much more convenient
     for, and facilitates compliance with diabetic patients and persons with other
     GLP-1 treated conditions.
     106612-94-6 107444-51-9
TΤ
     RL: BAC (Biological activity or effector, except adverse); BSU
     (Biological study, unclassified); PEP (Physical, engineering or
     chemical process); PRP (Properties); THU (Therapeutic use); BIOL
     (Biological study); PROC (Process); USES (Uses)
        (amino acid sequence; oral GLP-1 formulations for antidiabetic and
        other therapeutic applications)
                               THERE ARE 7 CITED REFERENCES AVAILABLE FOR
REFERENCE COUNT:
                               THIS RECORD. ALL CITATIONS AVAILABLE IN THE
                               RE FORMAT
E1 THROUGH E6 ASSIGNED
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                E E2+ALL
          35244 S E4+OLD
L16
            38 S L2 AND L16
L17
L18
             38 S L17 AND THU/RL
L19
              3 S (L17 OR L18) AND (L7 OR L8)
L20
             0 S L19 NOT L13
     (FILE 'REGISTRY' ENTERED AT 10:45:08 ON 08 APR 2008)
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T.1
                LVKGR/SOSP
L14
              6 SEA FILE=REGISTRY ABB=ON PLU=ON (106612-94-6/BI OR
                107444-51-9/BI OR 123475-27-4/BI OR 87805-34-3/BI OR
                532951-64-7/BI OR 672297-54-0/BI)
L15
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L15 ANSWER 1 OF 6 REGISTRY COPYRIGHT 2008 ACS on STN
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CN
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     seryl-L-tyrosyl-L-leucyl-L-\alpha-glutamylglycyl-L-glutaminyl-L-
     alanyl-L-alanyl-L-lysyl-L-\alpha-glutamyl-L-phenylalanyl-L-isoleucyl-
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OTHER NAMES:
CN
    31: PN: WO2006121860 SEQID: 31 claimed sequence
     74: PN: WO2004022004 SEQID: 27 claimed sequence
CN
     81: PN: WO2004022004 SEQID: 27 claimed sequence
CN
SQL 32
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REFERENCE 1: 146:274625
REFERENCE 2: 146:8253
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REFERENCE 3: 140:264513
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CN
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     L-phenylalanyl-L-threonyl-L-seryl-L-\alpha-aspartyl-L-valyl-L-seryl-L-
     seryl-L-tyrosyl-L-leucyl-L-\alpha-glutamylglycyl-L-glutaminyl-L-
     alanyl-L-alanyl-L-lysyl-L-\alpha-qlutamyl-L-phenylalanyl-L-isoleucyl-
     L-alanyl-L-tryptophyl-L-leucyl-L-valyl-L-lysylqlycyl-L-arginyl-N6-[[2-
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     oxopropyl]amino]ethoxy]ethoxy]acetyl]- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN
    CJC 1131
CI
    MAN
SQL 31
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**RELATED SEOUENCES AVAILABLE WITH SEOLINK**
REFERENCE 1: 148:198622
REFERENCE
          2: 147:480395
REFERENCE
          3: 147:336599
REFERENCE
           4: 147:181546
            5: 147:125827
REFERENCE
           6: 146:507686
REFERENCE
REFERENCE
           7: 146:309868
REFERENCE
          8: 146:135619
REFERENCE 9: 145:443920
REFERENCE 10: 145:328394
L15 ANSWER 3 OF 6 REGISTRY COPYRIGHT 2008 ACS on STN
RN
     123475-27-4 REGISTRY
CN
     L-Arginine, L-histidyl-L-alanyl-L-\alpha-glutamylglycyl-L-threonyl-L-
     phenylalanyl-L-threonyl-L-seryl-L-\alpha-aspartyl-L-valyl-L-seryl-L-
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L15 ANSWER 4 OF 6 REGISTRY COPYRIGHT 2008 ACS on STN
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L15 ANSWER 5 OF 6 REGISTRY COPYRIGHT 2008 ACS on STN
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L15 ANSWER 6 OF 6 REGISTRY COPYRIGHT 2008 ACS on STN
    87805-34-3 REGISTRY
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FILE 'BIOSIS' ENTERED AT 10:47:48 ON 08 APR 2008
Copyright (c) 2008 The Thomson Corporation
FILE 'EMBASE' ENTERED AT 10:47:48 ON 08 APR 2008
Copyright (c) 2008 Elsevier B.V. All rights reserved.
L21
           825 SEA ABB=ON PLU=ON L1
             1 SEA ABB=ON PLU=ON L21 AND (?HYPERTENS? OR HIGH(1W)(BLOOD
L22
               OR PRESSURE) OR HBP) (10A) (TREAT? OR THERAP? OR PREVENT?)
             8 SEA ABB=ON PLU=ON L21 AND (?DIURETIC? OR (MYOCARDI## OR
L23
               CARDIAC OR HEART) (3A) (STIMULAT? OR STIMULANT) OR (CARDIO
               OR CARDIAC OR HEART) (3A) PROTECT? OR CARDIOPROTECT? OR
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L24
             9 SEA ABB=ON PLU=ON L22 OR L23
             9 DUP REM L24 (0 DUPLICATES REMOVED)
L25
L25 ANSWER 1 OF 9 EMBASE COPYRIGHT (c) 2008 Elsevier B.V. All rights
    reserved on STN
ACCESSION NUMBER: 2007225744 EMBASE
                                         Full-text
TITLE:
                   Effects of glucagon-like peptide-1 and long-acting
                   analogues on cardiovascular and metabolic function.
                   Saraceni, Christine; Broderick, Tom L. (correspondence)
AUTHOR:
CORPORATE SOURCE:
                   Department of Physiology, Midwestern University, 19555
                   North 59th Avenue, Glendale, AZ 85308, United States.
```

tbrode@midwestern.edu

SOURCE: Drugs in R and D, (2007) Vol. 8, No. 3, pp. 145-153.

Refs: 41

ISSN: 1174-5886 CODEN: DRDDFD

COUNTRY: New Zealand

DOCUMENT TYPE: Journal; General Review; (Review)

FILE SEGMENT: 030 Clinical and Experimental Pharmacology

037 Drug Literature Index 038 Adverse Reactions Titles

039 Pharmacy

006 Internal Medicine

LANGUAGE: English SUMMARY LANGUAGE: English

ENTRY DATE: Entered STN: 21 Jun 2007

Last Updated on STN: 21 Jun 2007

Although the insulinotropic role of glucagon-like peptide-1 (GLP-1) in type 2 diabetes mellitus has been substantiated, its role in cardioprotection remains largely unknown. To ascertain the role of the cardiovascular actions of GLP-1 in health and disease states necessitates a review of the current evidence as well as ongoing investigation. Of cardiovascular significance, both positive inotropic and chronotropic effects, unmodifiable by β -adrenergic blockers, have been reportedly attributed to GLP-1 actions on the myocardium. However, the potent role of GLP-1 and its analogues in eliciting tachycardic and pressor effects should be of some concern. Aside from its reported insulinotropic activity, GLP-1 impacts the myocardium directly. Highly specific GLP-1 receptors have been identified in the heart and within the central nervous system, particularly in the nucleus tractus solitarius, a neuromodulatory centre of cardiovascular control. The occurrence of GLP-1 receptors in cardiac tissue and autonomic regions of cardiovascular control has stimulated investigation, particularly as these sites may be suitable targets for the pharmacological action of GLP-1 and long-acting analogues. Discordance on the haemodynamic consequences of GLP-1 pharmacotherapy in experimental animals and human patients has been reported in the literature. However, long-term pharmacological doses of GLP-1 have shown prolonged and beneficial actions on cardiovascular homeostasis in the adjuvant treatment of metabolic disease. . COPYRGT. 2007 Adis Data Information BV. All rights reserved.

L25 ANSWER 2 OF 9 EMBASE COPYRIGHT (c) 2008 Elsevier B.V. All rights

reserved on STN

ACCESSION NUMBER: 2007123964 EMBASE Full-text

TITLE: Glucagon-like peptide 1: Continued advances, new

targets and expanding promise as a model therapeutic.

AUTHOR: Aulinger, Benedikt; D'Alessio, David, Dr.

(correspondence)

CORPORATE SOURCE: Division of Endocrinology, University of Cincinnati,

Cincinnati, OH, United States. dalessd@ucmail.uc.edu

AUTHOR: D'Alessio, David, Dr. (correspondence)

CORPORATE SOURCE: Division of Endocrinology, University of Cincinnati, ML

0547, Cincinnati, OH 45267, United States. dalessd@ucma

il.uc.edu

SOURCE: Current Opinion in Endocrinology, Diabetes and Obesity,

(Feb 2007) Vol. 14, No. 1, pp. 68-73.

Refs: 50

ISSN: 1752-296X

PUBLISHER IDENT.: 0126602920070200000014

COUNTRY: United States

DOCUMENT TYPE: Journal; General Review; (Review)

FILE SEGMENT: 029 Clinical and Experimental Biochemistry

003 Endocrinology

037 Drug Literature Index

LANGUAGE: English SUMMARY LANGUAGE: English

ENTRY DATE: Entered STN: 3 Apr 2007

Last Updated on STN: 3 Apr 2007

AΒ PURPOSE OF REVIEW: This article discusses glucagon-like peptide 1 physiology and its various sites of action beyond the incretin effect and highlights recent findings (2005 and 2006). RECENT FINDINGS: Glucagon-like peptide 1 is a physiological incretin in humans and promotes insulin secretion after nutrient ingestion. It is secreted from intestinal L cells after meals and may be partially responsible for the improved glycemic control and weight loss after bariatric surgery. In vivo, glucagon-like peptide 1 is quickly degraded by dipetidyl peptidase IV to glucagon-like peptide 1(9-36), which has unclear physiologic activity. Glucagon-like peptide 1 and its specific receptor are also expressed in the brain, and central nervous system. Glucagon-like peptide 1 can reduce food intake, mediate toxic illness responses and control muscle and liver glucose disposal. In the heart, glucagon-like peptide 1 receptor activation improves cardiac hemodynamics in patients following angioplasty and has a beneficial effect on myocardial function in heart failure and postischemic animal models. Finally, glucagon-like peptide 1 augments islet mass and recent studies have identified cellular mechanisms by which glucagon-like peptide 1 receptor signaling affects this process. SUMMARY: Glucagon-like peptide 1 is emerging as a regulatory factor with a broad range of actions related to substrate and energy metabolism. With the recent development of medications based on glucagon-like peptide 1 receptor signaling for diabetes treatment, these new findings suggest the promise of further application of this system for the treatment of other conditions such as obesity and cardiovascular disease. .COPYRGT. 2007 Lippincott Williams & Wilkins, Inc.

L25 ANSWER 3 OF 9 EMBASE COPYRIGHT (c) 2008 Elsevier B.V. All rights

reserved on STN

ACCESSION NUMBER: 2006601367 EMBASE Full-text

TITLE: Glucagon-Like Peptide-1 Infusion Improves Left

Ventricular Ejection Fraction and Functional Status in

Patients With Chronic Heart Failure.

AUTHOR: Sokos, George G.; Nikolaidis, Lazaros A.; Mankad,

Sunil; Shannon, Richard P., Dr. (correspondence)

CORPORATE SOURCE: Department of Medicine, Allegheny General Hospital,

Pittsburgh, PA, United States.

AUTHOR: Sokos, George G.; Nikolaidis, Lazaros A.; Mankad,

Sunil; Shannon, Richard P., Dr. (correspondence)

CORPORATE SOURCE: Drexel University College of Medicine, Philadelphia,

PA, United States.

AUTHOR: Elahi, Dariush

CORPORATE SOURCE: Department of Surgery, The Johns Hopkins University

School of Medicine, Baltimore, MD, United States.

SOURCE: Journal of Cardiac Failure, (Dec 2006) Vol. 12, No. 9,

pp. 694-699.

Refs: 31

ISSN: 1071-9164 E-ISSN: 1532-8414 CODEN: JCFAF9

PUBLISHER IDENT.: S 1071-9164(06)01109-2

COUNTRY: United States
DOCUMENT TYPE: Journal; Article

FILE SEGMENT: 018 Cardiovascular Diseases and Cardiovascular

Surgery

003 Endocrinology

037 Drug Literature Index

038 Adverse Reactions Titles

006 Internal Medicine

LANGUAGE: English
SUMMARY LANGUAGE: English

ENTRY DATE: Entered STN: 23 Jan 2007

Last Updated on STN: 6 Sep 2007

AΒ Background: Insulin resistance is present in the setting of congestive heart failure. Glucagon-like peptide-1 (GLP-1) is a naturally occurring incretin with both insulinotropic and insulinomimetic properties. Methods and Results: We investigated the safety and efficacy of a 5-week infusion of GLP-1 (2.5 pmol/kg/min) added to standard therapy in 12 patients with New York Heart Association class III/IV heart failure and compared the results with those of 9 patients with heart failure on standard therapy alone. Echocardiograms, maximum myocardial ventilation oxygen consumption (VO(2) max), 6-minute walk test, and Minnesota Living with Heart Failure quality of life score (MNQOL) were assessed. Baseline demographics, background therapy, and the degree of left ventricular dysfunction were similar between groups. GLP-1 significantly improved left ventricular ejection fraction (21 \pm 3% to 27 \pm 3% P < .01), VO(2) max (10.8 ± .9 ml/O(2)/min/kg to 13.9 ± .6 ml/O(2)/min/kg; P < .001), 6minute walk distance (232 \pm 15 m to 286 \pm 12 m; P < .001) and MNQOL score (64 \pm 4 to 44 \pm 5; P < .01). Benefits were seen in both diabetic and non-diabetic patients. There were no significant changes in any of the parameters in the control patients on standard therapy. GLP-1 was well tolerated with minimal episodes of hypoglycemia and gastrointestinal side effects. Conclusion: Chronic infusion of GLP-1 significantly improves left ventricular function, functional status, and quality of life in patients with severe heart failure. .COPYRGT. 2006 Elsevier Inc. All rights reserved.

L25 ANSWER 4 OF 9 MEDLINE on STN

ACCESSION NUMBER: 2005603848 MEDLINE Full-text

DOCUMENT NUMBER: PubMed ID: 16024574

TITLE: Active metabolite of GLP-1 mediates myocardial glucose

uptake and improves left ventricular performance in

conscious dogs with dilated cardiomyopathy.

AUTHOR: Nikolaidis Lazaros A; Elahi Dariush; Shen You-Tang;

Shannon Richard P

CORPORATE SOURCE: Dept. of Medicine, Allegheny General Hospital, 320 E.

North Ave., Pittsburgh, PA 15212, USA.

CONTRACT NUMBER: AG-023125 (United States NIA)

DA-10480 (United States NIDA)

SOURCE: American journal of physiology. Heart and circulatory

physiology, (2005 Dec) Vol. 289, No. 6, pp. H2401-8.

Electronic Publication: 2005-07-15.

Journal code: 100901228. ISSN: 0363-6135.

PUB. COUNTRY: United States

DOCUMENT TYPE: (COMPARATIVE STUDY)

Journal; Article; (JOURNAL ARTICLE) (RESEARCH SUPPORT, N.I.H., EXTRAMURAL)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200601

ENTRY DATE: Entered STN: 15 Nov 2005

Last Updated on STN: 11 Jan 2006

Entered Medline: 10 Jan 2006

AB We have shown previously that the glucagon-like peptide-1 (GLP-1)-(7-36) amide increases myocardial glucose uptake and improves left ventricular (LV) and systemic hemodynamics in both conscious dogs with pacing-induced dilated cardiomyopathy (DCM) and humans with LV systolic dysfunction after acute myocardial infarction. However, GLP-1-(7-36) is rapidly degraded in the

plasma to GLP-1-(9-36) by dipeptidyl peptidase IV (DPP IV), raising the issue of which peptide is the active moiety. By way of methodology, we compared the efficacy of a 48-h continuous intravenous infusion of GLP-1-(7-36) (1.5 pmol.kg(-1).min(-1)) to GLP-1-(9-36) (1.5 pmol.kg(-1).min(-1)) in 28 conscious, chronically instrumented dogs with pacing-induced DCM by measuring LV function and transmyocardial substrate uptake under basal and insulinstimulated conditions using hyperinsulinemic-euglycemic clamps. As a result, dogs with DCM demonstrated myocardial insulin resistance under basal and insulin-stimulated conditions. Both GLP-1-(7-36) and GLP-1-(9-36)significantly reduced (P < 0.01) LV end-diastolic pressure [GLP-1-(7-36), 28 +/-1 to 15 +/-2 mmHg; GLP-1-(9-36), 29 +/-2 to 16 +/-1 mmHg] and significantly increased (P < 0.01) the first derivative of LV pressure [GLP-1-(7-36), 1,315 +/- 81 to 2,195 +/- 102 mmHg/s; GLP-1-(9-36), 1,336 +/- 77 to 2,208 +/- 68 mmHg] and cardiac output [GLP-1-(7-36), 1.5 +/- 0.1 to 1.9 +/-0.1 $1/\min$; GLP-1-(9-36), 2.0 +/- 0.1 to 2.4 +/- 0.05 $1/\min$], whereas an equivolume infusion of saline had no effect. Both peptides increased myocardial glucose uptake but without a significant increase in plasma insulin. During the GLP-1-(9-36) infusion, negligible active (NH2-terminal) peptide was measured in the plasma. In conclusion, in DCM, GLP-1-(9-36)mimics the effects of GLP-1-(7-36) in stimulating myocardial glucose uptake and improving LV and systemic hemodynamics through insulinomimetic as opposed to insulinotropic effects. These data suggest that GLP-1-(9-36) amide is an active peptide.

L25 ANSWER 5 OF 9 MEDLINE on STN

ACCESSION NUMBER: 2004611777 MEDLINE Full-text

DOCUMENT NUMBER: PubMed ID: 15536516

TITLE: [Oral diabetes treatment. Which substance is indicated

at which time?].

Orale Diabetestherapie. Welche Substanz ist wann

indiziert?.

AUTHOR: Hamann A; Morcos M; Nawroth P

CORPORATE SOURCE: Abteilung Innere Medizin I, Universitatsklinikum

Heidelberg.. andreas_hamman@med.uni-heidelberg.de

SOURCE: Der Internist, (2004 Dec) Vol. 45, No. 12, pp. 1356-63.

Ref: 30

Journal code: 0264620. ISSN: 0020-9554. Germany: Germany, Federal Republic of

PUB. COUNTRY: Germany: Germany,
DOCUMENT TYPE: (ENGLISH ABSTRACT)

Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

LANGUAGE: German

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200503

ENTRY DATE: Entered STN: 9 Dec 2004

Last Updated on STN: 9 Mar 2005 Entered Medline: 8 Mar 2005

AB The prevalence of type 2 diabetes continues to show a clear upward trend in Germany. In earlier days it was considered the "harmless diabetes of old age," but has become increasingly recognized as a disease carrying a high risk of vascular sequelae as well as shortening the diabetic's remaining life expectancy if adequate therapy is not initiated. In addition to correcting hyperglycemia, treatment consists in effective management of concomitant risk factors such as hypertension, dyslipidemia, and adiposity resulting from faulty nutrition and lack of exercise. In the large majority of overweight type 2 diabetics, metformin is the oral antidiabetic agent of first choice provided the patient does not exhibit renal insufficiency, which represents the most important contraindication. This recommendation for monotherapy of overweight type 2 diabetics is supported by an endpoint study. In contrast,

no equivalent evidence is available on any of the possible options for oral combination therapy.

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AUTHOR:

ACCESSION NUMBER: 2004537018 EMBASE Full-text

TITLE: Clinical implications: A review of the data.

AUTHOR: Sack, Michael, Dr. (correspondence)

CORPORATE SOURCE: Natl. Heart, Lung, and Blood Inst., Molecuar Biology

Section, National Institutes of Health, Bethesda, MD,

United States. sackm@nhlbi.nih.gov
Sack, Michael, Dr. (correspondence)

CORPORATE SOURCE: Natl. Heart, Lung, and Blood Inst., Molecular Biology

Section, MSC-1650, 10 Center Drive, Bethesda, MD 20892-1650, United States. sackm@nhlbi.nih.gov

SOURCE: Advanced Studies in Medicine, (Nov 2004) Vol. 4, No. 10

B, pp. S816-S821.

Refs: 26

ISSN: 1530-3004 CODEN: ASMDCT

COUNTRY: United States

DOCUMENT TYPE: Journal; General Review; (Review)

FILE SEGMENT: 018 Cardiovascular Diseases and Cardiovascular

Surgery

037 Drug Literature Index038 Adverse Reactions Titles

LANGUAGE: English SUMMARY LANGUAGE: English

ENTRY DATE: Entered STN: 6 Jan 2005

Last Updated on STN: 6 Jan 2005

Despite treatment with traditional pharmacotherapy and/or revascularization, AB angina remains a significant health problem for many patients with ischemic heart disease. Novel agents that manipulate cardiac metabolism in the ischemic state to provide relief from anginal symptoms may prove beneficial to many patients with persistent angina despite traditional treatment. Recent clinical data using novel pharmacologic compounds to optimize metabolism in cardiac ischemia as well as clinical implications of these agents are reviewed. Ranolazine and trimetazidine, 2 orally active partial free fatty acid oxidation inhibitors, have demonstrated angina relief independent of hemodynamic effects as monotherapy or in combination with traditional antianginal medication. Ranolazine is currently under review by the US Food and Drug Administration for approval in the United States. Trimetazidine is approved in more than 80 countries but is not likely to receive approval in the United States until its effects on the QT interval, toxicity at higher doses, and a randomized dose-response study are formally evaluated. Although not practical for chronic administration in the angina patient, beneficial effects of continuous infusion with glucose, insulin, and potassium in patients post acute myocardial infarction (AMI) may provide important insight into the development of new antianginal therapy. Glucagon-like peptide-1 has demonstrated beneficial global and regional ventricular function in a pilot study of patients after successful reperfusion after AMI. The anti-ischemic agent ivabradine is an indirect metabolic modulator and has demonstrated a reduction in major coronary events in patients with stable angina. This cardioprotective benefit observed with ivabradine may be associated with an improvement in fibrinolytic capacity. To date clinical experience with this novel class of agents is limited in the United States. However, controlled clinical studies are encouraging regarding the future use of these agents as a novel strategy for the management of coronary artery disease. Finally, further data are needed to determine if these novel therapies will be able to

fill the gap in angina relief in patients who remain refractory with traditional pharmacotherapy commonly coupled with revascularization.

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ACCESSION NUMBER: 2003226161 EMBASE Full-text

TITLE: Antihypertensive effect of glucagon-like peptide 1 in

Dahl salt-sensitive rats.

AUTHOR: Yu, Ming; Moreno, Carol; Hoagland, Kimberly M.; Dahly,

Annette; Ditter, Katie; Roman, Richard J.

(correspondence)

CORPORATE SOURCE: Department of Physiology, Medical College of Wisconsin,

8701 Watertown Plank Road, Milwaukee, WI 53226, United

States. rroman@mcw.edu

AUTHOR: Mistry, Mahesh

CORPORATE SOURCE: Restoragen Inc., Lincoln, NE, United States.

SOURCE: Journal of Hypertension, (1 Jun 2003) Vol. 21, No. 6,

pp. 1125-1135.

Refs: 44

ISSN: 0263-6352 CODEN: JOHYD3

COUNTRY: United Kingdom DOCUMENT TYPE: Journal; Article

FILE SEGMENT: 018 Cardiovascular Diseases and Cardiovascular

Surgery

028 Urology and Nephrology

030 Clinical and Experimental Pharmacology

037 Drug Literature Index

LANGUAGE: English SUMMARY LANGUAGE: English

ENTRY DATE: Entered STN: 19 Jun 2003

Last Updated on STN: 19 Jun 2003

Background: Dahl salt-sensitive (Dahl S) rats exhibit many phenotypic traits AΒ associated with salt-sensitive hypertension in man. Specifically, they are salt-sensitive, insulin-resistant and hyperlipidemic. They also develop endothelial dysfunction, cardiac injury and glomerulosclerosis. Insulin resistance is linked to hypertension, renal and cardiac damage and endothelial dysfunction. Thus, an agent that has discretic action and can improve insulin resistance, like recombinant glucagon-like peptide-1(7-36)amide (rGLP-1), may have an antihypertensive effect. Objective: To determine whether chronic administration of rGLP-1 attenuates the development of hypertension, endothelial dysfunction and/or hypertension-induced renal and cardiac end organ damage in Dahl S rats. Methods: Mean arterial pressure (MAP) and urinary excretion of protein and albumin were measured in Dahl S rats before and after they were fed a 8% NaCl diet and infused with rGLP-1 (1 $\mu g/kg$ per min, i.v.) or vehicle for 14 days. At the end of the study, the degree of renal and cardiac injury was histologically assessed and endothelium-dependent relaxing function was studied using aortic rings. In other rats, the effects of rGLP-1 on sodium and water balance and plasma glucose and insulin levels for the first 3 days following a step change in sodium intake from a 0.1% NaCl diet to 7.5 mEq/day were determined. Results: rGLP-1 significantly attenuated the development of hypertension in Dahl S rats (136 \pm 7 versus 174 \pm 6 mmHg). This was associated with reduction in proteinuria (46 \pm 7 versus 128 \pm 15 mg/day) and albuminuria (46 ± 7 versus 86 ± 18 mg/day) and improvement of endothelial function and renal and cardiac damage. rGLP-1 markedly increased urine flow and sodium excretion for the first 3 days following elevation in sodium intake. It had no significant effects on plasma glucose and insulin concentrations. Conclusion: rGLP-1 has antihypertensive and cardiac and renoprotective effects in Dahl S rats fed a high salt diet. The antihypertensive effect of rGLP-1 in Dahl S rats is due mainly to its discretic

and natriuretic effects, rather than an effect to improve insulin-resistance. .COPYRGT. 2003 Lippincott Williams & Wilkins.

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ACCESSION NUMBER: 2003279565 EMBASE Full-text

TITLE: Glucagon-like peptide-1 (7-36) amide prevents the

accumulation of pyruvate and lactate in the ischemic

and non-ischemic porcine myocardium.

AUTHOR: Kavianipour, Mohammad

CORPORATE SOURCE: Dept. of Pub. Hlth./Clin. Medicine, Umea University

Hospital, Umea, Sweden.

AUTHOR: Ehlers, Mario R.

CORPORATE SOURCE: Restoragen, Inc., Lincoln, NE, United States.

AUTHOR: Malmberg, Klas; Ryden, Lars

CORPORATE SOURCE: Department of Cardiology, Karolinska Hospital,

Stockholm, Sweden.

AUTHOR: Ronquist, Gunnar

CORPORATE SOURCE: Department of Clinical Chemistry, University Hospital,

Uppsala, Sweden.

AUTHOR: Wikstrom, Gerhard (correspondence)

CORPORATE SOURCE: Department of Cardiology, University Hospital,

Akademiska Sjukhuset, Uppsala SE-751 85, Sweden.

Gerhard.wikstrom@medsci.se

AUTHOR: Gutniak, Mark

CORPORATE SOURCE: Department of Medicine, Sodersjukhuset, Stockholm,

Sweden.

SOURCE: Peptides, (1 Apr 2003) Vol. 24, No. 4, pp. 569-578.

Refs: 28

ISSN: 0196-9781 CODEN: PEPTDO

COUNTRY: United States
DOCUMENT TYPE: Journal; Article

FILE SEGMENT: 018 Cardiovascular Diseases and Cardiovascular

Surgery

030 Clinical and Experimental Pharmacology

037 Drug Literature Index

LANGUAGE: English SUMMARY LANGUAGE: English

ENTRY DATE: Entered STN: 31 Jul 2003

Last Updated on STN: 31 Jul 2003

AB Glucagon-like peptide-1 (7-36) amide (GLP-1) has been studied as a treatment option in diabetic patients. We investigated the effect of recombinant GLP-1 infusion on hemodynamic parameters, myocardial metabolism, and infarct size during normoxic conditions as well as during ischemia and reperfusion using an open-chest porcine heart model. In the presence of rGLP-1, interstitial levels of pyruvate and lactate decreased during ischemia and reperfusion both in ischemic and non-ischemic tissue. Moreover, rGLP-1 infusion resulted in increased plasma insulin levels and decreased blood glucose levels. Neither hemodynamic variables nor the consequent infarct size were influenced by rGLP-1 infusion. We conclude that rGLP-1 altered myocardial glucose utilization during ischemia and reperfusion. It did not exert any untoward hemodynamic effects. .COPYRGT. 2003 Elsevier Science Inc. All rights reserved.

L25 ANSWER 9 OF 9 MEDLINE on STN

ACCESSION NUMBER: 2002116165 MEDLINE <u>Full-text</u>

DOCUMENT NUMBER: PubMed ID: 11779579

TITLE: Renal effects of glucagon-like peptide in rats.
AUTHOR: Moreno Carol; Mistry Mahesh; Roman Richard J

CORPORATE SOURCE: Department of Physiology, Medical College of Wisconsin,

8701 Watertown Plank Road, PO Box 26509, Milwaukee, WI

53226-0509, USA.

CONTRACT NUMBER: HL36279 (United States NHLBI)

SOURCE: European journal of pharmacology, (2002 Jan 11) Vol.

434, No. 3, pp. 163-7.

Journal code: 1254354. ISSN: 0014-2999.

PUB. COUNTRY: Netherlands

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

(RESEARCH SUPPORT, NON-U.S. GOV'T)

(RESEARCH SUPPORT, U.S. GOV'T, P.H.S.)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200204

ENTRY DATE: Entered STN: 20 Feb 2002

Last Updated on STN: 19 Apr 2002 Entered Medline: 18 Apr 2002

AΒ The present study examined the effects of recombinant glucagon-like peptide-1-(7-36) amide (rGLP-1) on renal hemodynamics and excretory function in innervated and denervated kidneys of anesthetized rats. Intravenous infusion of rGLP-1 at a dose of 1 microg x kg(-1) x min(-1) increased urine flow and Na(+) excretion 13-fold in the innervated kidney. The natriuretic and diarretic response to rGLP-1 was attenuated in the denervated kidney in which urine flow and Na(+) excretion only increased 3-fold. Fractional excretion of Li(+), an index of proximal tubular reabsorption, increased 219% in the innervated kidney but only 54% in the denervated kidney during infusion of rGLP-1. The digretic and natriuretic response to rGLP-1 was associated with an increase in glomerular filtration rate (39%) in the innervated kidney, but it had no effect on glomerular filtration rate in the denervated kidney. These results indicate that the natriuretic and divretic effects of rGLP-1 are due to inhibition of Na(+) reabsorption in the proximal tubule. It also increases glomerular filtration rate in kidneys with an intact renal innervation.

FILE 'HOME' ENTERED AT 10:49:08 ON 08 APR 2008

=> d his ful FILE 'REGISTRY' ENTERED AT 10:30:45 ON 08 APR 2008 566 SEA ABB=ON PLU=ON HAEGTFTSDVSSYLEGQAAKEFIAWLVKGR/SQSP L1FILE 'CAPLUS' ENTERED AT 10:31:10 ON 08 APR 2008 584 SEA ABB=ON PLU=ON L1 L2 L3 32 SEA ABB=ON PLU=ON L2 AND (?HYPERTENS? OR HIGH(1W)(BLOOD OR PRESSURE) OR HBP) (10A) (TREAT? OR THERAP? OR PREVENT?) SET REN ON E HYPERTENSION+ALL/CT 59887 SEA ABB=ON PLU=ON HYPERTENSION+OLD/CT L4T₁5 43 SEA ABB=ON PLU=ON L2 AND L4 L6 43 SEA ABB=ON PLU=ON L5 AND THU/RL E DIURETIC+ALL/CT E E2+ALL 10793 SEA ABB=ON PLU=ON DIURETICS+OLD/CT L7E INOTROPICS+ALL/CT 2456 SEA ABB=ON PLU=ON INOTROPICS+OLD/CT L8 4 SEA ABB=ON PLU=ON L6 AND (L7 OR L8) L9 L10 4 SEA ABB=ON PLU=ON L5 AND (L7 OR L8) L11 4 SEA ABB=ON PLU=ON L3 AND (?DIURETIC? OR (MYOCARDI## OR CARDIAC OR HEART) (3A) (STIMULAT? OR STIMULANT) OR (CARDIO OR CARDIAC OR HEART) (3A) PROTECT? OR CARDIOPROTECT? OR ?CARDIOTONIC?) 8 SEA ABB=ON PLU=ON L2 AND (?DIURETIC? OR (MYOCARDI## OR L12 CARDIAC OR HEART) (3A) (STIMULAT? OR STIMULANT) OR (CARDIO OR CARDIAC OR HEART) (3A) PROTECT? OR CARDIOPROTECT? OR ?CARDIOTONIC?) L13 9 SEA ABB=ON PLU=ON L9 OR L10 OR L11 OR L12 D OUE L9 D OUE L10 D QUE L11 D QUE L12 D L13 1-9 SEL HIT L13 1-9 RN FILE 'REGISTRY' ENTERED AT 10:45:08 ON 08 APR 2008 L14 6 SEA ABB=ON PLU=ON (106612-94-6/BI OR 107444-51-9/BI OR 123475-27-4/BI OR 87805-34-3/BI OR 532951-64-7/BI OR 672297-54-0/BI) D OUE L15 6 SEA ABB=ON PLU=ON L1 AND L14 FILE 'CAPLUS' ENTERED AT 10:46:07 ON 08 APR 2008 E ANTIHYPERTENSIVE AGENTS+ALL/CT E E2+ALL L16 35244 SEA ABB=ON PLU=ON ANTIHYPERTENSIVES+OLD/CT L17 38 SEA ABB=ON PLU=ON L2 AND L16 L18 38 SEA ABB=ON PLU=ON L17 AND THU/RL L19 3 SEA ABB=ON PLU=ON (L17 OR L18) AND (L7 OR L8) L20 O SEA ABB=ON PLU=ON L19 NOT L13

FILE 'MEDLINE, BIOSIS, EMBASE' ENTERED AT 10:47:48 ON 08 APR 2008 825 SEA ABB=ON PLU=ON L1

FILE 'REGISTRY' ENTERED AT 10:47:17 ON 08 APR 2008

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L21

L22	1 SEA ABB=ON PLU=ON L21 AND (?HYPERTENS? OR HIGH(1W)(BLOOD
	OR PRESSURE) OR HBP)(10A)(TREAT? OR THERAP? OR PREVENT?)
L23	8 SEA ABB=ON PLU=ON L21 AND (?DIURETIC? OR (MYOCARDI## OR
	CARDIAC OR HEART) (3A) (STIMULAT? OR STIMULANT) OR (CARDIO
	OR CARDIAC OR HEART) (3A) PROTECT? OR CARDIOPROTECT? OR
	?CARDIOTONIC?)
L24	9 SEA ABB=ON PLU=ON L22 OR L23
L25	9 DUP REM L24 (0 DUPLICATES REMOVED)
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